California Environmental Protection Agency OB Air Resources Board

DAIMLER AG

EXECUTIVE ORDER U-R-016-0118-1 New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012:

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2016	GMBXL15.6RJA	15.6	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLIC	CATION
Cooler, Exha	ic Direct Injection, Turbo Engine Control Module, ust Gas Recirculation, Souction-Urea, Ammonia O	Oxidation Catalyst, elective Catalytic	Loader, Tractor, Pump, Ger	nerator

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			E	XHAUST (g/kw-l	nr)		OF	ACITY (%	6)
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 <u><</u> KW <u><</u> 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	0.33		0.5	0.02			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order U-R-016-0118 dated December 24, 2015.

Executed at El Monte, California on this

Annette Hebert, Chief

missions Compliance, Automotive Regulations and Science Division

				Engi	Engine Model Summary Template	ary Template			
Engine Family	1. Engine Code	2. Engine Model	Engine Family 1. Engine Code 2. Engine Model 3. BHP@RPM 4. Fuel Rate: (SAE Gross) mm/stroke@ (for diesel on	4. Fuel Rate: 5. Fuel Rate: 6. Torque@l mm/stroke@peak HP (lbs/hr)@peak HP (SAE Gross) (for diesel only)	5. Fuel Rate: (lbs/hr)@peak HP (for diesel only)	RPM	7. Fuel Rate: (lbs/hr)@peak torque	8. Fuel Rate: mm/stroke@peak torque	7. Fuel Rate: 8. Fuel Rate: 9. Emission Control (lbs/hr)@peak mm/stroke@peak Device per SAE 11930 torque
GMBXL15.6RJA 473LA.E4-1	473LA.E4-1	OM473LA	460KW@1700	357.0	89.8 Kg/hr	2900Nm@1300	384.0	73.9 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX
GMBXL15.6RJA	GMBXL15.6RJA 473LA.E4-2	OM473LA	OM473LA 430KW@1700	332.8	83.7 Kg/hr	2750Nm@1300	363.4	69.9 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX
GMBXL15.6RJA	GMBXL15.6RJA 473LA.E4-3		OM473LA 400KW@1700	313.4	78.8 Kg/hr	2600Nm@1300	344.9	66.3 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX